

OEM Style Industrial Non-Contact Infrared Thermometer/Transmitter with Local Display and Analog Output

OS550-BB Series
Starts at

\$445



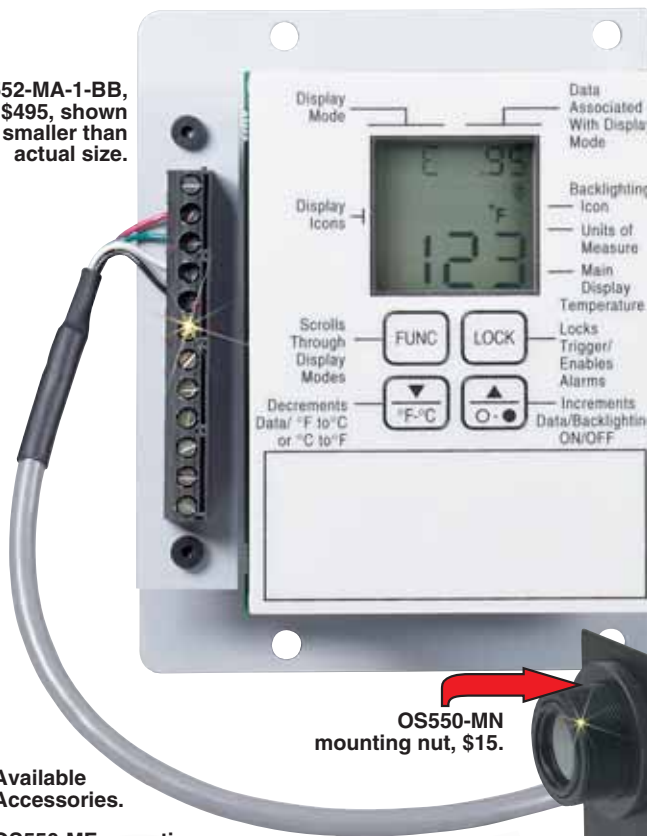
- ✓ Accuracy $\pm 1\%$ of Reading
- ✓ Models with Temperature Ranges Measuring Up to 2500°F (1370°C)
- ✓ Current, Voltage, or Millivolt Output
- ✓ Laser Sighting Optional
- ✓ °C/°F Keypad Selectable
- ✓ Local Backlit LCD Display Standard
- ✓ Dual Display Indicates Current plus Min, Max, Average, or Differential Temperatures on All Models
- ✓ Visual and Audible High/Low Alarm
- ✓ Emissivity Adjustable from 0.1 to 1.00 in 0.01 Steps via the Programmable Keypad
- ✓ Fast 250 msec Response Time
- ✓ RS232 Communication

OMEGA's OEM style OS550-BB Series industrial, high-performance, economical thermometer/transmitter offers a wide choice of temperature ranges, optical patterns, or fields of view and 3 outputs (1 mV/deg, 4 to 20 mA, and 0 to 5 Vdc) to feed directly into panel meters, recorders, PLCs, temperature/process controllers, data loggers, data acquisition systems, or other process instrumentation.

Since the OS550-BB Series infrared thermometers do not use chopper motors or vibrator mechanisms, they can be mounted in any position and in hostile environments without suffering any loss in performance.

This OEM design coupled with relatively small dimensions makes these sensors ideally suited for a wide variety of applications.

OS552-MA-1-BB, \$495, shown smaller than actual size.



FREE
data logging software included with models OS552, 553 and 554.

OS550 sensor head (included) shown with optional mounting bracket and mounting nut.

OS550-MN mounting nut, \$15.

Available Accessories.

OS550-MF mounting frame, \$65.



OS550-AP air purge collar, \$65.

OS550-WC air/water cooling jacket, \$195.

OS550-MB mounting bracket, \$35.

We make running changes when technical advances allow. Check at time of ordering for additional features.

Specifications

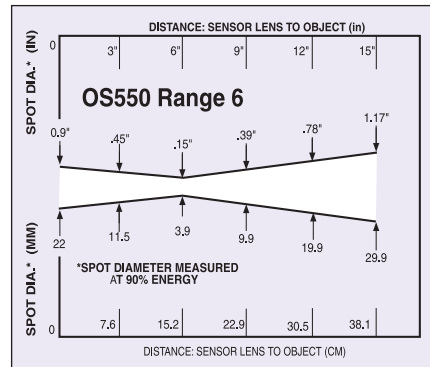
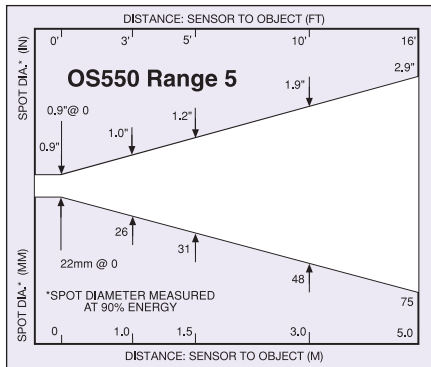
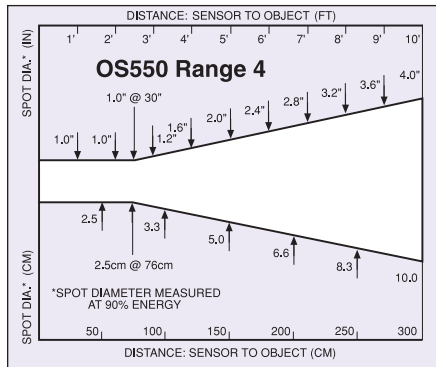
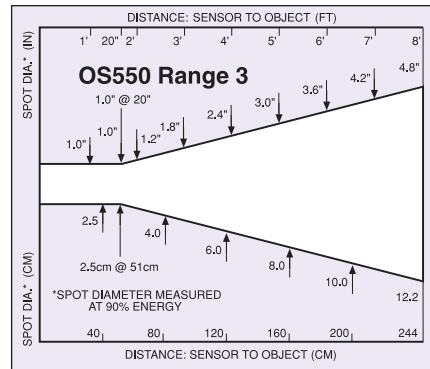
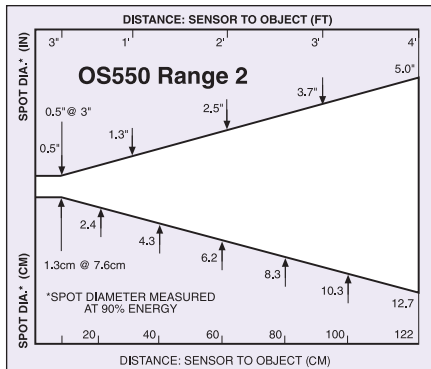
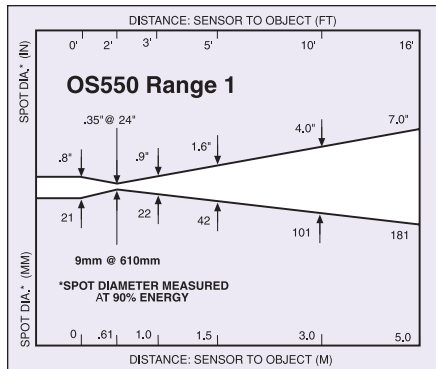
Accuracy: $\pm 1\%$ of reading @ 25°C ambient or 3°F, whichever is greater
Repeatability: $\pm 1\%$ rdg ± 1 digit
Spectral Response: 8 to 14 microns
Emissivity Range: 0.10 to 0.99 in 0.01 steps
Field of View (FOV): See diagrams
Display: Backlit LCD
Transmitter Outputs: 1 mV/degree, 0 to 5 Vdc, or 4 to 20 mA
Power: 7 to 24 Vdc @ 80 mA
Environmental Ratings: NEMA 4 Water-tight and dust-tight sensing head
Ambient Operating Range: Sensing head -18 to 85°C (0 to 185°F) with OS550-WC; 0 to 50°C (32 to 122°F) without OS550-WC electronics
RS232: Standard on OS552, OS553 and OS554 models; one-way communication; PC-compatible software included

Connection: 4.5 m (15') sensor head cable Included
Dimensions:
Sensing Head: 10.9 x 4.1 cm (4.30 x 1.63"), 1/2"-20 thread
Electronics: 4.66 x 3.60" (11.8 x 9.1 cm)
Weight:
Sensing Head: 0.45 kg (12 oz)
Main Electronics: 1.13 kg (40 oz)
Response Time: 250 msec; 0 to 63.2%

OMEGACARESM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labor and equivalent loaners.



OS550-BB Series Optical Field of View Diagrams



☐ **MOST POPULAR MODELS HIGHLIGHTED!**

To Order (Specify Model Number)

Model No.	Price	Output	Temperature Range	RS232	Free PC Software
OS551-MV-(*)-BB	\$445	1 mV/deg	-18 to 400°C (0 to 750°F)	—	—
OS551-MA-(*)-BB	445	4 to 20 mA	-18 to 400°C (0 to 750°F)	—	—
OS551-V1-(*)-BB	445	0 to 5 Vdc	-18 to 400°C (0 to 750°F)	—	—
OS552-MV-(*)-BB	495	1 mV/deg	-18 to 540°C (0 to 1000°F)	Standard	Standard
OS552-MA-(*)-BB	495	4 to 20 mA	-18 to 540°C (0 to 1000°F)	Standard	Standard
OS552-V1-(*)-BB	495	0 to 5 Vdc	-18 to 540°C (0 to 1000°F)	Standard	Standard
OS553-MV-(*)-BB	595	1 mV/deg	-18 to 870°C (0 to 1600°F)	Standard	Standard
OS553-MA-(*)-BB	595	4 to 20 mA	-18 to 870°C (0 to 1600°F)	Standard	Standard
OS553-V1-(*)-BB	595	0 to 5 Vdc	-18 to 870°C (0 to 1600°F)	Standard	Standard
OS554-MV-(*)-BB	695	1 mV/deg	-18 to 1370°C (0 to 2500°F)	Standard	Standard
OS554-MA-(*)-BB	695	4 to 20 mA	-18 to 1370°C (0 to 2500°F)	Standard	Standard
OS554-V1-(*)-BB	695	0 to 5 Vdc	-18 to 1370°C (0 to 2500°F)	Standard	Standard

* Insert optics code from table below.

* Insert desired sensor head cable length.

Comes with sensor head, 4.6 m (15') sensor head cable, main electronics and operator's manual. The OS552, OS553, and OS554 also include RS232 cable, cable connector/adaptor and software on 3.5" floppy disk.

Note: Sensor head cable can be extended to a maximum of 15 m (50') **only** by the factory at time of purchase. Add suffix "-(**f**)FT" to the model number and \$1.00 per foot over 4.6 m (15').

Ordering Examples: OS552-MA-2-BB, Infrared thermometer with -18 to 540°C (0 to 1000°F) range, 4 to 20 mA output and spot size 0.5" at 3", \$495. OS551-MA-2-BB-35FT, OS551 with current output, 0.5 at 3" FOV, 35' sensor head cable, \$495 + 20 = \$515. OCV-3 OMEGACARESM extends standard 2-year warranty to a total of 5 years (\$123), \$495 + 123 = \$618.

Optical Table*

Optical Range Code	Field of View (FOV)
- 1	Spot size 8.9 @ 609 mm (0.35" @ 24")
- 2	Spot size 12.7 @ 76 mm (0.5" @ 3")
- 3	Spot size 25.4 @ 508 mm (1" @ 20")
- 4	Spot size 25.4 @ 762 mm (1" @ 30")
- 5	Spot size 25.4 @ 1524 mm (1" @ 60")
- 6	Spot size 3.8 @ 152 mm (0.15" @ 6")

Accessories

Model No.	Price	Description
OS550-AP	\$65	Air purge collar
OS550-WC	195	Air/water cooling jacket
OS550-MF	65	Mounting frame
OS550-MB	35	Right-angle mounting bracket
OS550-MN	15	Mounting nut
OS550-LS	195	Sighting viewer (laser) (not shown)*
CAL-3-IR	125	NIST calibration certification
PSR-24S	60	Regulated power supply, US plug, 90 to 264 Vac input, 24 Vdc output, 400 mA, screw terminals, UL
PSR-24L	60	Regulated power supply, US plug, 90 to 264 Vac input, 24 Vdc output, 400 mA, stripped leads, UL
PSR-24L-230	60	Regulated power supply, European plug, 230 Vac input, 24 Vdc output, 400 mA, stripped leads, CE
PSU-93	40	Unregulated power supply, 16 to 23 Vdc, 300 mA max, screw terminal
TX4-100	28.50	Power/output extension wire 30 m (100')

* 1 unit suitable for aligning many heads.



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• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters